SVS/VE USER'S GUIDE

NOS/VE 1.3.1 L700

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1.0 INTRODUCTION

The System Validation Suite (SVS) tests CYBER 170/180-800 and 900 Series mainframe hardware features in an operating system environment. The Suite tests hardware features by executing operating system functions, test jobs, and on-line hardware diagnostics. SVS is designed to be used by the following Control Data organizations.

- Arden Hills and Canadian Manufacturing Divisions for hardware checkout.
- Product Assurance for mainframe verification.
- Hardware development organizations and Arden Hills Programming Division for Configuration Management testing.
- Engineering Services for mainframe validation after customer mainframe installation and major FCO installation.

This user's guide documents the use of SVS/VE. SVS/VE is a version of SVS that is available as part of the NOS/VE Operating System. This package contains NOS/VE tests for all CYBER 180 mainframes. It executes the same mainframe tests as SVS/Dual Mode and SVS/Standalone mode. Additionally, it provides the ability to select peripheral verification. Use SVS/VE for CYBER 930 installations for which NOS/VE is factory installed. SVS/VE may also be used on any CYBER 180 mainframe for mainframe/peripheral verification. Since it coexists with Standard NOS/VE, SVS/VE requires no dedicated resources. However, it should not be run without customer consent.

WARNING: If the customer's system is in production, execution of SVS will severely degrade system performance.

2.0 INSTRUCTIONS

2.1 Test Initiation

1. SVS assumes the following:

   * The correct level of CYBER Initialization Package (CIP) is installed.

   * NOS/VE deadstart is complete and the BASE_2 product tape is installed. If you need further information regarding this, please consult the NOS/VE 1.2.3 L688 Software Release Bulletin (SRB).

2. Enter:

   SETCL A = $USER.SVS.COMMAND_LIBRARY

3. Choose one of the following steps:

   NOTE: Although use of the SET_JOB_CLASS_LIMITS command is generally discouraged at this level of NOS/VE, it is recommended in steps a, d and e.

   a) This option should be used if you want to thoroughly validate the mainframe and peripherals in a minimum amount of time. On a 930-11 mainframe, this testing will take approximately one hour to execute.

      Enter:

ESTSE VERIFICATION SETJCL MAINTENANCE 50 RUNSVS FOR 1 PASS	Executes one pass of mainframe tests and 30 minutes of peripheral tests.

   b) Use this option to thoroughly validate the mainframe in a minimum amount of time.

      Enter:

ESTSE MAINFRAME RUNSVS FOR 1 HOUR	Executes the mainframe tests for one hour.

   c) Use this option to validate the mainframe for an extended period of time.

      Enter:

ESTSE MAINFRAME RUNSVS FOR hh HOURS	Executes the mainframe tests for hh hours and mm minutes.

d) Use this option to validate the peripherals only.

Enter:

```
ESTSE PERIPHERALS       Executes one pass of the peripheral
SETJCL MAINTENANCE 50   tests.
RUNSVS FOR 1 PASS
```

e) Use this option to validate the mainframe and peripherals for an extended period of time.

Enter:

```
ESTSE ALL               Executes mainframe and peripheral
SETJCL MAINTENANCE 50   tests for hh hours and mm minutes.
RUNSVS FOR 1 PASS
```

2.2 Test Results

When testing is complete, the bottom window of the console will display the message TESTING COMPLETED, and either PASSED or FAILED in large block letters.

HPA/VE will automatically run to report any intermittent or corrected hardware failures. Additionally, if failures have occurred, job logs and/or job test case failure data will be printed. If a printer is not available, you may examine the data on-line using the FAILURES and SCAN_OUTPUT commands. See section 2.4 for additional information.

If NOS/VE hangs, a system dump should be taken and analyzed. A hardware problem should be suspected. Further analysis of a hardware problem should be done using on-line and off-line diagnostics. However, Service Bulletins should be reviewed for known NOS/VE problems.

If additional help is needed to determine cause of a failure, contact the Support Services Organization (SSO) through the World Support Center (1-800-345-9903 for United States and Canadian customers or 1-612-851-4131 for international customers).

2.3 Additional NOS/VE Console Commands

Listed below are some NOS/VE Console Operator commands that you may find useful in monitoring test execution.

- VED AJ — Opens a sharing window in the middle of the screen to show all active jobs.

- VED MS — Opens a sharing window in the middle of the screen to show information on available disk space.

- DISSJ Displays current status of any swapped jobs in main operator window.
- DISAO Displays output queue contents.
- DISAI Displays input queue contents.

2.4 Additional SVS Commands

(Type in DISCI [command_name] to see parameters for commands listed below)

o FAILURES	Displays testcase failure data.
o HELP	Displays a list of available SVS commands.
o PRINT_HISTORY	Places a copy of the HISTORY file in the output queue. The HISTORY file is where NOS/VE SVS places the machine descriptor information, all testing results, any error information, and a results summary.
o RESET_HISTORY	Creates a new history file. Enter this command before restarting a test session to clear the file.
o RUNHPA	Processes the Engineering logs and generates HPA/VE report at your convenience.
o SCAN_HISTORY	Displays a history file since last deadstart or a RESET_HISTORY command.
o RUN_MST	Runs the VE MST test on drive with specified VSN. The VSN of a drive may be obtained from the VED DS display.
o SCAN_OUTPUT_QUEUE	Displays an output queue file. For scrolling control with a PC console use "Cntrl S" and "Cntrl Q". With all other consoles use the SETUP and F1 keys.
o TERMINATE	Prematurely terminates a SVS testing session.
o QUIT	Exits from the SVS utility.

3.0 PROBLEM REPORTS

If you discover a problem with SVS, please document it on a software Problem Status Report (PSR). Among the required PSR information, you need to specify the NOS/VE release level, the product name of 'SVS', and the problem description. Submit an on-line PSR via SOLVER, or send a PSR form according to the normal PSR procedures (as printed on the back of the PSR form).